EG&G EM Department
Rocky Flats Plant

(06/03/91)

EM DEPARTMENT DATA ASSESSMENT SUMMARY REPORT FORM

Batch No. 9104P128 **Site** Solar Ponds

Laboratory IT-Pittsburgh **No. of Samples/Matrix** 5/Water

SOW # 10/86 (Rev. 2/88) **Reviewer Org.** QuantaLex, Inc.

Sample Numbers SW01064WC, SW01065WC, SW01068WC, SW80110WC, SW80111WC

Data Assessment Summary

		VOA	Comments
1.	Holding Times	V	
2.	GC/MS Tune/Instr. Perf.	V	
3.	Calibrations	A	Action Items 1,2; Comment 1
4.	Blanks	A	Action Item 3; Comment 2
5.	Surrogates	V	
6.	Matrix Spike/Dup.	X	
7.	Other QC	X	Comments 3,4,5
8.	Internal Standards	V	
9.	Compound Identification	V	
10.	System Performance	V	
11.	Overall Assessment	A	Data acceptable with qualifications.

V = Data had no problems.
A = Data acceptable but qualified due to problems.
R = Data rejected.
X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Data Summary Tables.)

REVIEWED FOR CLASSIFICATION/UCNI
By
Date 10/28/91

104p128v/voa

Action Items: 1) The %RSD for Acetone exceeded 50% in the 4/12/91 (instrument 1) initial calibration. Therefore, the non-detected result for Acetone in sample SW01064WC is rejected. The positive results in sample SW01068WC and SW01065WC would be estimated (J) if not for blank contamination (see Action Item 3). (The %D for Acetone exceeded 25% in the 4/17/91 (1405) continuing calibration.)

2) The %Ds for Acetone exceeded 25% in the 4/17/91 (1456) continuing calibration on instrument 3. The positive result for Acetone in sample SW80110WC is estimated (J).

3) As a result of method blank contamination, the positive results for Acetone in samples SW01068WC and SW01065WC are reported as undetected and estimated (J) according to the Functional Guidelines criteria (10x rule).

Comments: 1) The %RSD or %D for several compounds exceeded criteria in various calibrations. No action is necessary because there were no positive results for these compounds in the associated samples.

2) The positive result for Acetone in VBLK 4/18/91 (1003) was not reported on the Form 1, but was correctly reported on the data summary tables.

3) The (B) flag was removed from the data summary tables by QuantaLex for VBLK 4/17/91 (1506). This flag is not needed to indicate blank contamination for method blank results.

4) The chain-of-custody indicated that the cooler containing sample SW80111WC was lost by Federal Express and was not received at ITAS-Pittsburgh until 4/18/91. A letter dated 6/11/91 from ITAS-Pittsburgh project manager David Dunlap stated that the VOA vials were not in this cooler. The VOA sample was received at ITAS-Pittsburgh on 4/17/91 as indicated on Form 1.

5) Sample SW01068WC was received at the laboratory at 10°C. The affect on this sample is not known.

Note: Data Summary Tables are attached.

Erica M. Bickman — Validator Signature — 6/17/91 — Date

William T. Fee — Reviewer Signature — 6/17/91 — Date

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYTI RESULT	RSLT QUA IFIE	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	V	REASONS 1	2	3	4	QU RESULT	QU UNIT OF MEASU	QU QUA IFIER
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	71-55-6	5	U		UG/L		1,1,1-Trichloroethane	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	79-34-5	5	U		UG/L		1,1,2,2-Tetrachloroethane	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	79-00-5	5	U		UG/L		1,1,2-Trichloroethane	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	75-34-3	5	U		UG/L		1,1-Dichloroethane	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	75-35-4	5	U		UG/L		1,1-Dichloroethene	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	107-06-2	5	U		UG/L		1,2-Dichloroethane	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	SU	VOA-SUR3	96			%		1,2-Dichloroethane-D4									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	540-59-0	5	U		UG/L		1,2-dichloroethene (total)	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	78-87-5	5	U		UG/L		1,2-Dichloropropane	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	78-93-3	10	U		UG/L		2-Butanone	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	591-78-6	10	U		UG/L		2-Hexanone	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	108-10-1	10	U		UG/L		4-Methyl-2-Pentanone	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	67-64-1	6	BJ		UG/L		Acetone	10.0000	JA				49	10	UG/L	U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	71-43-2	5	U		UG/L		Benzene	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	75-27-4	5	U		UG/L		Bromodichloromethane	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	SU	VOA-SUR2	103			%		Bromofluorobenzene									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	75-25-2	5	U		UG/L		Bromoform	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	74-83-9	10	U		UG/L		Bromomethane	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	75-15-0	5	U		UG/L		Carbon disulfide	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	56-23-5	5	U		UG/L		Carbon tetrachloride	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	108-90-7	5	U		UG/L		Chlorobenzene	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	75-00-3	10	U		UG/L		Chloroethane	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	67-66-3	1	J		UG/L		Chloroform	5.0000	A							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	74-87-3	10	U		UG/L		Chloromethane	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	10061-01-5	5	U		UG/L		cis-1,3-Dichloropropene	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	124-48-1	5	U		UG/L		Dibromochloromethane	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	100-41-4	5	U		UG/L		Ethylbenzene	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	75-09-2	5	U		UG/L		Methylene chloride	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	100-42-5	5	U		UG/L		Styrene	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	127-18-4	5	U		UG/L		Tetrachloroethene	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	108-88-3	5	U		UG/L		Toluene	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	SU	VOA-SUR1	103			%		Toluene-D8									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	1330-20-7	5	U		UG/L		Total Xylenes	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	10061-02-6	5	U		UG/L		trans-1,3-Dichloropropene	5.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	79-01-6	3	J		UG/L		Trichloroethene	5.0000	A							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	108-05-4	10	U		UG/L		Vinyl acetate	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA		04/17/91		VBLK4-17-91 1506	VOCCLPTCL	TR	75-01-4	10	U		UG/L		Vinyl chloride	10.0000	V							

EM DEPARTMENT DATA ASSESSMENT SUMMARY REPORT FORM

Batch No. 9104P128 **Site** Solar Ponds
Laboratory ITAS-Pittsburgh **No. of Samples/Matrix** 5/Water
SOW # 10/86 (Rev. 2/88) **Reviewer Org.** QuantaLex, Inc.
Sample Numbers SW01064WC, SW01065WC, SW0168WC, SW80110WC, SW80111WC

Data Assessment Summary

		BNA	Comments
1.	**Holding Times**	V	
2.	**GC/MS Tune/Instr. Perf.**	V	
3.	**Calibrations**	A	Action Items 1,2; Comment 1
4.	**Blanks**	A	Action Item 3
5.	**Surrogates**	V	
6.	**Matrix Spike/Dup.**	X	Comment 2
7.	**Other QC**	V	
8.	**Internal Standards**	V	
9.	**Compound Identification**	X	Comments 3,4
10.	**System Performance**	V	
11.	**Overall Assessment**	A	Data acceptable with qualifications.

V = Data had no problems.
A = Data acceptable but qualified due to problems.
R = Data rejected.
X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Data Summary Tables.)

Action Items: 1) The %RSD for 3-Nitroaniline exceeded 50% in the initial calibration. The non-detected results for this compound in all samples are rejected (R).

2) The %Ds for Benzoic Acid, 4-Chloroaniline and 4-Nitroaniline exceeded 50% in the continuing calibration. The non-detected results for these compounds in all samples are rejected (R).

3) As a result of method blank contamination, the positive results for Di-n-Butylphthalate in all samples are reported as undetected and estimated (J) according to the Functional Guidelines criteria (10x rule).

Comments: 1) The %RSDs and %Ds for several compounds in the initial and continuing calibrations exceeded criteria. No action is taken because there were no positive results for these compounds.

2) Form 3 for the MS/MSD analysis incorrectly report a result of 7.8 ug/l for Pentachlorophenol in the unspiked sample. The corrected percent recoveries for Pentachlorophenol are within QC limits and no action is required.

3) Extraneous ions were present in the mass spectra for Di-n-Butylphthalate in samples SW01064WC, SW01065WC, and SW80111WC. This indicated the presence of a non-HSL compound, but does not necessarily interfere with the quantitation of the target compound. Therefore, no action is necessary.

4) Three TICs were found in sample SW01065WC.

Note: Data Summary Tables are attached.

Validator Signature — Date: 6/12/91

Reviewer Signature — Date: 6/12/91

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYTI RESULT	RSLT QUA IFIE	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	V	REASONS 1	2	3	4	QLI RESULT	QLI UNIT OF MEASU	QLI QUA FIER
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	120-82-1	10	U		UG/L		1,2,4-Trichlorobenzene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	95-50-1	10	U		UG/L		1,2-Dichlorobenzene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	541-73-1	10	U		UG/L		1,3-Dichlorobenzene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	106-46-7	10	U		UG/L		1,4-Dichlorobenzene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	95-95-4	50	U		UG/L		2,4,5-Trichlorophenol	50.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	SU	SVOA-SUR6	82			%		2,4,6-Tribromophenol									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	88-06-2	10	U		UG/L		2,4,6-Trichlorophenol	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	120-83-2	10	U		UG/L		2,4-Dichlorophenol	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	105-67-9	10	U		UG/L		2,4-Dimethylphenol	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	51-28-5	50	U		UG/L		2,4-Dinitrophenol	50.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	121-14-2	10	U		UG/L		2,4-Dinitrotoluene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	606-20-2	10	U		UG/L		2,6-Dinitrotoluene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	91-58-7	10	U		UG/L		2-Chloronaphthalene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	95-57-8	10	U		UG/L		2-Chlorophenol	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	SU	SVOA-SUR2	76			%		2-Fluorobiphenyl									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	SU	SVOA-SUR5	30			%		2-Fluorophenol									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	91-57-6	10	U		UG/L		2-Methylnaphthalene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	95-48-7	10	U		UG/L		2-Methylphenol	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	88-74-4	50	U		UG/L		2-Nitroaniline	50.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	88-75-5	10	U		UG/L		2-Nitrophenol	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	91-94-1	20	U		UG/L		3,3'-Dichlorobenzidine	20.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	99-09-2	50	U		UG/L		3-Nitroaniline	50.0000	R	40						
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	534-52-1	50	U		UG/L		4,6-Dinitro-2-Methylphenol	50.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	101-55-3	10	U		UG/L		4-Bromophenyl-phenylether	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	106-47-8	10	U		UG/L		4-Chloroaniline	10.0000	R	41						
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	7005-72-3	10	U		UG/L		4-Chlorophenyl-phenylether	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	59-50-7	10	U		UG/L		4-Chloro-3-Methylphenol	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	106-44-5	10	U		UG/L		4-Methylphenol	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	100-01-6	50	U		UG/L		4-Nitroaniline	50.0000	R	41						
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	100-02-7	50	U		UG/L		4-Nitrophenol	50.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	83-32-9	10	U		UG/L		Acenaphthene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	208-96-8	10	U		UG/L		Acenaphthylene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	120-12-7	10	U		UG/L		Anthracene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	65-85-0	50	U		UG/L		Benzoic Acid	50.0000	R	41						
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	56-55-3	10	U		UG/L		Benzo(a)Anthracene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	50-32-8	10	U		UG/L		Benzo(a)Pyrene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	205-99-2	10	U		UG/L		Benzo(b)Fluoranthene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	191-24-2	10	U		UG/L		Benzo(g,h,i)Perylene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	207-08-9	10	U		UG/L		Benzo(k)Fluoranthene	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	100-51-6	10	U		UG/L		Benzyl Alcohol	10.0000	V							

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYTI RESULT	RSLT QUA IFIE	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	V	REASONS 1	2	3	4	QLI RESULT	QLI UNIT OF MEASU	QLI QUA FIER
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	111-91-1	10	U		UG/L		bis(2-Chloroethoxy)Methane	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	111-44-4	10	U		UG/L		bis(2-Chloroethyl) Ether	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	108-60-1	10	U		UG/L		bis(2-Chloroisopropyl)Ether	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	117-81-7	10	U		UG/L		bis(2-Ethylhexyl)Phthalate	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	85-68-7	10	U		UG/L		Butylbenzylphthalate	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	218-01-9	10	U		UG/L		Chrysene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	132-64-9	10	U		UG/L		Dibenzofuran	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	53-70-3	10	U		UG/L		Dibenzo(a,h)Anthracene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	84-66-2	4	J		UG/L		Diethylphthalate	10.0000	A							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	131-11-3	10	U		UG/L		Dimethyl Phthalate	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	84-74-2	4	BJ		UG/L		Di-n-Butylphthalate	10.0000	JA				49	10	UG/L	U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	117-84-0	10	U		UG/L		Di-n-Octyl Phthalate	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	206-44-0	10	U		UG/L		Fluoranthene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	86-73-7	10	U		UG/L		Fluorene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	118-74-1	10	U		UG/L		Hexachlorobenzene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	87-68-3	10	U		UG/L		Hexachlorobutadiene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	77-47-4	10	U		UG/L		Hexachlorocyclopentadiene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	67-72-1	10	U		UG/L		Hexachloroethane	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	193-39-5	10	U		UG/L		Indeno(1,2,3-cd)pyrene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	78-59-1	10	U		UG/L		Isophorone	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	91-20-3	10	U		UG/L		Naphthalene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	SU	SVOA-SUR1	61			%		Nitrobenzene-d5									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	86-30-6	10	U		UG/L		N-Nitrosodiphenylamine	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	621-64-7	10	U		UG/L		N-Nitroso-Di-n-Propylamine	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	87-86-5	20	J		UG/L		Pentachlorophenol	50.0000	A							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	85-01-8	10	U		UG/L		Phenanthrene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	108-95-2	10	U		UG/L		Phenol	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	SU	SVOA-SUR4	26			%		Phenol-d5									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TR	129-00-0	10	U		UG/L		Pyrene	10.0000	v							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	SU	SVOA-SUR3	114			%		Terphenyl									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TIC		12	J		UG/L	24.65	UNKNOWN									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TIC		8.2	J		UG/L	6.53	UNKNOWN									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/19/91		SBLK4-19-91 1324	SVOCLPTCL	TIC		12	J		UG/L	26.52	UNKNOWN									

EG&G EM Department
Rocky Flats Plant

(06/07/91)

EM DEPARTMENT DATA ASSESSMENT SUMMARY REPORT FORM

Batch No. 9104P128 **Site** Solar Ponds

Laboratory IT-Pittsburgh **No. of Samples/Matrix** 5/Water

SOW # 10/86 (Rev. 2/88) **Reviewer Org.** QuantaLex, Inc.

Sample Numbers SW01064WC, SW01065WC, SW01068WC, SW80110WC, SW80111WC

Data Assessment Summary

		Pesticides/PCB	Comments
1.	**Holding Times**	V	
2.	**Instrument Performance**	V	
3.	**Calibrations**	X	Comment 1
4.	**Blanks**	V	
5.	**Surrogates**	V	
6.	**Matrix Spike/Dup.**	X	Comment 2
7.	**Other QC**	X	Comments 3,4
8.	**Compound Identification**	X	Comment 5
9.	**System Performance**	V	
10.	**Overall Assessment**	V	Data are valid.

V = Data had no problems.
A = Data acceptable but qualified due to problems.
R = Data rejected.
X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be valid. (Refer to attached Data Summary Tables.)

Comments: 1) The calibration factor percent difference for Dieldrin in the Individual Mix A analyzed 4/24/91 (2057) exceeded 15% on the primary column. No action is necessary because there were no positive results for this compound.

2) The relative percent difference for Endrin exceeded criteria in the matrix spike/matrix spike duplicate analysis of sample SW01064WC. No action is necessary because results are not qualified due to MS/MSD alone.

3) According to the chain-of-custody, the cooler containing samples SW01068WC and SW80111WC was lost by Federal Express. These samples were received at a temperature of 10°C.

4) What appears to be instrument detection limits for two instruments dated 5/1/89 and 9/13/90 were provided by the laboratory.

5) Samples SW01064WC and SW80111WC were analyzed at a 4x dilution as explained in the case narrative. The diluted results are reported on the Data Summary Tables.

Note: Data Summary Tables are attached.

Pamela S. Rogus — Validator Signature — 6-17-91 — Date

Reviewer Signature — 6-17-91 — Date

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYTI RESULT	RSLT QUA IFIE	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	V	REASONS 1	2	3	4	QU RESULT	QU UNIT OF MEASU	QU QUA FIER
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	72-54-8	0.10	U		UG/L		4,4'-DDD	0.1000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	72-55-9	0.10	U		UG/L		4,4'-DDE	0.1000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	50-29-3	0.10	U		UG/L		4,4'-DDT	0.1000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	309-00-2	0.050	U		UG/L		Aldrin	0.0500	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	319-84-6	0.050	U		UG/L		alpha-BHC	0.0500	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	5103-71-9	0.50	U		UG/L		alpha-Chlordane	0.5000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	12674-11-2	0.50	U		UG/L		Aroclor 1016	0.5000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	11104-28-2	0.50	U		UG/L		Aroclor 1221	0.5000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	11141-16-5	0.50	U		UG/L		Aroclor 1232	0.5000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	53469-21-9	0.50	U		UG/L		Aroclor 1242	0.5000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	12672-29-6	0.50	U		UG/L		Aroclor-1248	0.5000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	11097-69-1	1.0	U		UG/L		Aroclor-1254	1.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	11096-82-5	1.0	U		UG/L		Aroclor-1260	1.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	319-85-7	0.050	U		UG/L		beta-BHC	0.0500	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	PEST-SUR1	62			%		DBC									
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	319-86-8	0.050	U		UG/L		delta-BHC	0.0500	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	60-57-1	0.10	U		UG/L		Dieldrin	0.1000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	959-98-8	0.050	U		UG/L		Endosulfan I	0.0500	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	33213-65-9	0.10	U		UG/L		Endosulfan II	0.1000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	1031-07-8	0.10	U		UG/L		Endosulfan sulfate	0.1000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	72-20-8	0.10	U		UG/L		Endrin	0.1000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	53494-70-5	0.10	U		UG/L		Endrin ketone	0.1000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	58-89-9	0.050	U		UG/L		gamma-BHC (Lindane)	0.0500	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	5103-74-2	0.50	U		UG/L		gamma-Chlordane	0.5000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	76-44-8	0.050	U		UG/L		Heptachlor	0.0500	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	1024-57-3	0.050	U		UG/L		Heptachlor epoxide	0.0500	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	72-43-5	0.50	U		UG/L		Methoxychlor	0.5000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A	ITPA	04/18/91	04/24/91		PBLK_090 2022	PSTCLPTCL	TR	8001-35-2	1.0	U		UG/L		Toxaphene	1.0000	V							

CONTRACTOR WOODWARD-CLYDE FEDERAL SERVICES SAMPLERS D. BURGESS, B. MONTGOMERY, R. LAHN PROJECT # 4002-410

SITE CONTACT/PHONE Bruce LaRue (303) 966-5874

LAB/LOCATION ~~WESTON GULF COAST /UNIV. PK., IL~~ IT Export / Export PA

C-O-C NUMBER WC-EX00005 (7 of 7)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

04/05/91

DATE/TIME		SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER OF CONTAINERS	MEDIA SOIL(S) WATER (W)	FILTERED=F POT DISS=P	TURN AROUND RUSH=R	OUT OF SPEC REPORTS REQUIRED	PRESERVATIVE: COOLED TO 4C Y/N	Zn(C2H3O2)2	NAOH	HNO3	H2SO4	Na2S2O3	A: VOA-CLP PRESERVED WITH HCl	B: BNA-CLP	C: PEST/PCB-CLP	D: TRIAZINES	E: OIL AND GREASE	F: METALS, Cs, Li, Sr, Sn, Mo - S PRESERVED WITH HNO3	G: CN PRESERVED WITH NaOH	H: TSS, TDS, Cl, F, SO4, CO3, HCO3, NO3	I: Tot Phos, NO3/NO2, NH4	J: o-Phos N O 2	K: H2S	L: TOC DOC IF FILTERED	M: GROSS A/B	N: Pu239/240, Am241	O: U233/234, 235, 238	P: Sr89/90, Cs137, Ra226, 228	Q: H3	R: RADIATION SCREEN
4/11/91	1530	SW01065WC	SW095	40 ML AG	2	W				Y						A															
	1540	SW01065WC	.	1 L AG	1	W				Y				X						E											
	1530	.	.	1 L POLY	1	W	F			Y			X							F											
	1545	.	.	1 L POLY	1	W				Y			X							F											
	1555	.	.	1 L POLY	1	W				Y		X									G										
	1550	.	.	1 L POLY	1	W				Y												H									
	1555	.	.	500 ML POLY	1	W				Y				X									I								
	1545	.	.	250 ML POLY	1	W				Y														J							
	1550	.	.	500 ML POLY	1	W				Y	X	X													K						
	1550	.	.	125 ML AG	1	W				Y				X											L						
	1530	.	.	125 ML AG	1	W	F			Y				X											L						
	1540			1L AC	2	W				Y							B														
4/11/91	1540	SW01065WC	SW095	1L AG	2	W				Y								C													
				555 4-16-91																											

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature]	4/11/91 1715	[signature]	4/11/91 1715
[signature]	4/16/91 1700	J Smith FT Pitt	4-17-91 0840

REMARKS

SHIPMENT METHOD Fed Ex

LABORATORY USE ONLY	Y / N
PCKG REC'D/CUSTODY SEALS INTACT	Y
SAMPLE LABELS/COCs AGREE	Y
TEMPERATURE WITHIN SPECIFICATION 3 C	
CORRECTED COPY ATTACHED	
OTHER PROBLEMS OR DISCREPANCIES	

000591

000591

EG&G EM Department
Rocky Flats Plant

(6/11/91)

EM DEPARTMENT DATA ASSESSMENT SUMMARY REPORT FORM

Batch No. 9104P128 **Site** Surface Water

Laboratory ITAS - Pittsburgh **No. of Samples/Matrix** 10/Water

SOW # 7/88 **Reviewer Org.** QuantaLex, Inc.

Sample Numbers SW01064WC (total and soluble), SW01065WC (total and soluble), SW01068WC (total and soluble), SW80110WC (total and soluble), SW80111WC (total and soluble)

Data Assessment Summary

		ICP	AA	Hg	CN	Comments
1.	Holding Times	V	V	V	V	
2.	Calibrations	A	V	V	V	Action Item 1
3.	Blanks	A	V	V	V	Action Items 2-15
4.	ICP Interference Check Sample	A	N/A	N/A	N/A	Action Items 16-19
5.	Matrix Spike Sample Results	V	A	V	A	Action Items 20-24
6.	Duplicate Sample Results	V	V	V	V	
7.	Lab Control Sample Results	V	V	V	V	
8.	Method of Standard Addition	N/A	V	N/A	N/A	
9.	Serial Dilution	A	N/A	N/A	N/A	Action Item 25
10.	Sample Verification	V	V	V	V	
11.	Other QC	X	X	X	X	Comments 1-8
12.	Overall Assessment	A	A	V	A	Data valid, or acceptable with qualifications

V = Data had no problems.
A = Data acceptable but qualified due to problems.
R = Data rejected.
X = Problems, but do not affect data.

N/A = Not applicable.

Data Quality: Data contained in this batch were reviewed and found to be valid, or acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Results Summary Tables).

Action Items: 1) The Cadmium value for SW01068WC (total) is estimated (J) because CRDL check sample (CRI) recovery criteria were not met.

2) The Aluminum values for SW80110WC (total) is estimated and undetected (UJ) because Aluminum values > IDL were found in the blanks.

3) The Aluminum non-detect for SW80110WC (soluble) is estimated and undetected (UJ) because of negative bias as indicated in the blanks.

4) The Antimony values for SW01065WC (total and soluble) and SW01068WC (total) are estimated and undetected (UJ) because Antimony values > IDL were found in the blanks.

5) The Barium, Magnesium, Potassium, and Zinc values for SW80110WC (total and soluble) are estimated and undetected (UJ) because analyte values > IDL were found in the blanks.

6) The Calcium and Sodium values for SW80110WC (soluble) are estimated and undetected (UJ) because analyte values > IDL were found in the blanks.

7) The Chromium and Cobalt values for SW01068WC (total) are estimated and undetected (UJ) because analyte values > IDL were found in the blanks.

8) The Copper values for SW01065WC (total and soluble), SW01068WC (total and soluble), and SW80110WC (total) are estimated and undetected (UJ) because Copper values > IDL were found in the blanks.

9) The Iron values for SW01064WC (soluble), SW01065WC (soluble), SW01068WC (soluble), SW80110WC (total and soluble), and SW80111WC (soluble) are estimated and undetected (UJ) because Iron values > IDL were found in the blanks.

10) The Lithium values for SW01068WC (total and soluble) and SW80110WC (total and soluble) are estimated and undetected (UJ) because Lithium values > IDL were found in the blanks.

11) The Nickel values for SW01065WC (total) and SW01068WC (total) are estimated and undetected (UJ) because Nickel values > IDL were found in the blanks.

12) The Molybdenum values for SW01065WC (total and soluble), SW01068WC (soluble), and SW80110WC (total and soluble) are estimated and undetected (UJ) because Molybdenum values > IDL were found in the blanks.

13) The Silver values for SW01065WC (total and soluble), SW01068WC (total), and SW80110WC (total) are estimated and undetected (UJ) because Silver values > IDL were found in the blanks.

Action Items (cont.): 14) The Thallium values for SW01064WC (soluble) and SW01065WC (soluble) are estimated and undetected (UJ) because Thallium values > IDL were found in the blanks.

15) The Tin values for SW01065WC (total and soluble), SW01068WC (total), and SW80110WC (total and soluble) are estimated and undetected (UJ) because Tin values > IDL were found in the blanks.

16) The Antimony, Cadmium, Cobalt, Chromium, Copper, Molybdenum, Nickel, Silver, Tin, and Vanadium values for SW01064WC (total and soluble) and SW80111WC (total and soluble) are estimated and undetected (UJ) because of possible Calcium interference as indicated in the ICP Interference Check Sample.

17) The Manganese and Zinc values for SW01064WC (total) and SW80111WC (total) are estimated and undetected (UJ) because of possible Calcium interference as indicated in the ICP Interference Check Sample.

18) The Lithium values for SW01064WC (total and soluble) and SW80111WC (soluble) are estimated (J) because of possible Calcium interference as indicated in the ICP Interference Check Sample.

19) The Strontium values for SW01064WC (total and soluble) and SW80111WC (total) are estimated (J) because of possible Calcium interference as indicated in the ICP Interference Check Sample.

20) The Selenium values for SW01065WC (total) and SW01064WC (total) are estimated (J), and the non-detects for SW01068WC (total) and SW80110WC (total) are estimated and undetected (UJ) because pre-digestion matrix spike recovery criteria were not met.

21) The Cyanide value for SW01065WC (total) is estimated (J), and the non-detects for SW01064WC (total), SW01068WC (total), SW80110WC (total), and SW80111WC (total) are estimated and undetected (UJ) because pre-digestion matrix spike recovery criteria were not met.

22) The Lead value for SW01065WC (total) is estimated (J) because post-digestion matrix spike recovery criteria were not met.

23) The Selenium values for SW01065WC (soluble) and SW80111WC (soluble) are estimated (J), and the non-detect for SW01064WC (soluble) is estimated and undetected (UJ) because post-digestion matrix spike recovery criteria were not met.

24) The Thallium non-detects for SW01068WC (total) and SW80111WC (total) are estimated and undetected (UJ) because post-digestion matrix spike recovery criteria were not met.

Action Items (cont.): 25) The Lithium values for SW01065WC (total and soluble) and SW80111WC (total) are estimated (J) because ICP serial dilution criteria were not met.

Comments: 1) Several soluble values are greater than their corresponding total values.

2) A post-digestion spike concentration of 6.0 ug/L was used for Lead. To be compliant with SOW 7/88, the spike concentration should have been 20.0 ug/L.

3) To be compliant with SOW 7/88, the digestion and distillation logs should indicate whether the final pH of the prepped samples is < 2 or > 12, as applicable. No final pH values were reported.

4) To be compliant with SOW 7/88, the pH of the Cyanide samples should be > 12. Instead, the pH commented on the chain of custody was 7.

5) To be compliant with SOW 7/88, the chain of custody should indicate that the samples SW01068WC (total and soluble) and SW80111WC (total and soluble) were chilled to 4 degrees C (+/- 2 degrees C) in the field. Instead, the samples were preserved at 10 degrees C.

6) The Arsenic, Lead, and Selenium raw data were rounded to whole numbers.

7) The Cyanide results are unverifiable because Mr. Snell Mills, Technical Director of ITAS - Oak Ridge, was unable to supply QuantaLex with the equation that the Lachet system uses to convert the raw data into concentrations.

8) The Cesium IDL used to validate and to report all non-detects was changed from 112 ug/L to 110 ug/L due to a significant figure discrepancy.

Note: Data Summary Tables are attached.

Pamela C. McLellan — Validator Signature — 6/11/91 — Date

Christine M. Gomez — Reviewer Signature — 6/11/91 — Date

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYTIC RESULT	RSLT QUA IFIER	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT V	REASONS 1 2 3 4	QLI RESULT	QLI UNIT OF MEASU	QLI QUA FIER
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		9.100	B		UG/L		Aluminum	200.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		8.700	B		UG/L		Antimony	60.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		2.000	U		UG/L		Arsenic	10.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		1.600	B		UG/L		Barium	200.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		1.000	B		UG/L		Beryllium	5.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		2.000	U		UG/L		Cadmium	5.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		18.100	B		UG/L		Calcium	5000.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETNOCLP	TRG		112.000	U		UG/L		Cesium	1000.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		5.000	U		UG/L		Chromium	10.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		3.000	U		UG/L		Cobalt	50.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		2.000	U		UG/L		Copper	25.0000				
PBW			P128	WATER	PBW		04/19/91	04/19/91			SMETCLPTC	TRG		-8.000	B		UG/L		Cyanide	10.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		38.300	B		UG/L		Iron	100.0000				
PBW			P128	WATER	PBW		04/25/91	04/29/91			SMETCLPTC	TRG		1.000	U		UG/L		Lead	3.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETNOCLP	TRG		21.100	B		UG/L		Lithium	100.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		13.800	B		UG/L		Magnesium	5000.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		1.000	U		UG/L		Manganese	15.0000				
PBW			P128	WATER	PBW		04/23/91	04/23/91			SMETCLPTC	TRG		0.200	U		UG/L		Mercury	0.2000				
PBW			P128	WATER	PBW		04/22/91	04/22/91			SMETCLPTC	TRG		0.200	U		UG/L		Mercury	0.2000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETNOCLP	TRG		6.600	B		UG/L		Molybdenum	200.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		4.000	U		UG/L		Nickel	40.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		150.800	B		UG/L		Potassium	5000.0000				
PBW			P128	WATER	PBW		04/25/91	04/29/91			SMETCLPTC	TRG		2.000	U		UG/L		Selenium	5.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		3.300	B		UG/L		Silver	10.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		39.500	B		UG/L		Sodium	5000.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETNOCLP	TRG		1.000	U		UG/L		Strontium	200.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		1.000	U		UG/L		Thallium	10.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETNOCLP	TRG		12.500	B		UG/L		Tin	200.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		2.000	U		UG/L		Vanadium	50.0000				
PBW			P128	WATER	PBW		04/25/91	04/30/91			SMETCLPTC	TRG		2.600	B		UG/L		Zinc	20.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		120.1920	B		UG/L		Aluminum	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		82.1			%		Aluminum	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		87.1			%		Aluminum	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		123.00	B		UG/L		Aluminum	200.0000 V				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		332.00			UG/L		Aluminum	200.0000 V				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		285.6450			UG/L		Aluminum	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		28.3300	B		UG/L		Antimony	60.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		36.6310	B		UG/L		Antimony	60.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		95.9			%		Antimony	60.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		31.40	B		UG/L		Antimony	60.0000 IA	7 9			U

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	SAMPLE COLLECTION TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	SAMPLE ANALYSIS TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RSL ID	CAS NUMBER	ANALYTIC RESULT	RSLT QUALIFIER	2 SIG ERROR	UNIT OF MEASU	RETENTION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT V	REASONS 1	2	3	4	QLI RESULT	QLI UNIT OF MEASU	QLI QUALIFIER
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		93.5			%		Antimony	60.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		35.60	B		UG/L		Antimony	60.0000 JA	7	9					U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		2.0000	U		UG/L		Arsenic	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		2.0000	U		UG/L		Arsenic	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		85.0			%		Arsenic	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		2.00	U		UG/L		Arsenic	10.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	U		UG/L		Arsenic	10.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		92.5			%		Arsenic	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		227.3170			UG/L		Barium	200.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		215.3740			UG/L		Barium	200.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		219.00			UG/L		Barium	200.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		86.3			%		Barium	200.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		88.9			%		Barium	200.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		222.00			UG/L		Barium	200.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		96.4			%		Beryllium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Beryllium	5.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		1.0000	U		UG/L		Beryllium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		1.00	U		UG/L		Beryllium	5.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		94.2			%		Beryllium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		1.0000	U		UG/L		Beryllium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		83.9			%		Cadmium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		3.1130	B		UG/L		Cadmium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		87.0			%		Cadmium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		3.30	B		UG/L		Cadmium	5.0000 JA	9						U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		4.00	B		UG/L		Cadmium	5.0000 JA	9						U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		2.3760	B		UG/L		Cadmium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		268295.196			UG/L		Calcium	5000.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		263000.00			UG/L		Calcium	5000.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		256757.505			UG/L		Calcium	5000.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		263000.00			UG/L		Calcium	5000.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	S1		103.0			%		Cesium	1000.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	S1		103.5			%		Cesium	1000.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	TRG		112.00	U		UG/L		Cesium	1000.0000 V				56	110	UG/L	U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	D		112.0000	U		UG/L		Cesium	1000.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	TRG		112.00	U		UG/L		Cesium	1000.0000 V				56	110	UG/L	U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	D		112.0000	U		UG/L		Cesium	1000.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		85.1			%		Chromium	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		21.2450			UG/L		Chromium	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		16.0510			UG/L		Chromium	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		23.60			UG/L		Chromium	10.0000 JA	9						U

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SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		83.1			%		Chromium	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		19.70			UG/L		Chromium	10.0000 JA	9						U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		6.2270	B		UG/L		Cobalt	50.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		87.2			%		Cobalt	50.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		7.00	B		UG/L		Cobalt	50.0000 JA	9						U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		7.90	B		UG/L		Cobalt	50.0000 JA	9						U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		88.4			%		Cobalt	50.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		5.4580	B		UG/L		Cobalt	50.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		9.9150	B		UG/L		Copper	25.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		91.0			%		Copper	25.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		10.20	B		UG/L		Copper	25.0000 JA	7	9					U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		6.7580	B		UG/L		Copper	25.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		93.0			%		Copper	25.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		8.20	B		UG/L		Copper	25.0000 JA	7	9					U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/19/91	04/19/91			SMETCLPTC	D		2.5000	U		UG/L		Cyanide	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/19/91	04/19/91			SMETCLPTC	S2		0.0	U		%		Cyanide	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/19/91	04/19/91			SMETCLPTC	S1		65.0	N		%		Cyanide	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/19/91	04/19/91			SMETCLPTC	TRG		2.50	UN		UG/L		Cyanide	10.0000 JA	8	12					
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		36.90	B		UG/L		Iron	100.0000 JA	7						U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		77.7			%		Iron	100.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		64.2770	B		UG/L		Iron	100.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		100.5			%		Iron	100.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		350.00			UG/L		Iron	100.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		373.1840			UG/L		Iron	100.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/29/91			SMETCLPTC	D		1.0000	U		UG/L		Lead	3.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/29/91			SMETCLPTC	TRG		1.00	UW		UG/L		Lead	3.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/29/91			SMETCLPTC	S1		107.5			%		Lead	3.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/29/91			DMETCLPTA	S1		106.5			%		Lead	3.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/29/91			DMETCLPTA	TRG		1.00	U		UG/L		Lead	3.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/29/91			DMETCLPTA	D		1.0000	U		UG/L		Lead	3.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	TRG		316.00	E		UG/L		Lithium	100.0000 JA	9	17					
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	S1		88.9			%		Lithium	100.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	D		320.2760			UG/L		Lithium	100.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	TRG		316.00	E		UG/L		Lithium	100.0000 JA	9	17					
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	S1		93.0			%		Lithium	100.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	D		309.2090			UG/L		Lithium	100.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		76402.1440			UG/L		Magnesium	5000.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		78600.00			UG/L		Magnesium	5000.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		80453.2350			UG/L		Magnesium	5000.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		78000.00			UG/L		Magnesium	5000.0000 V							

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SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		3.80	B		UG/L		Manganese	15.0000 JA	9						U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		91.0			%		Manganese	15.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		3.6470	B		UG/L		Manganese	15.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Manganese	15.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		1.0000	U		UG/L		Manganese	15.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		88.6			%		Manganese	15.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/22/91	04/22/91			DMETCLPTA	TRG		0.20	U		UG/L		Mercury	0.2000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/23/91	04/23/91			SMETCLPTC	S1		121.0			%		Mercury	0.2000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/22/91	04/22/91			DMETCLPTA	D		0.2000	U		UG/L		Mercury	0.2000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/23/91	04/23/91			SMETCLPTC	D		0.2000	U		UG/L		Mercury	0.2000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/23/91	04/23/91			SMETCLPTC	TRG		0.20	U		UG/L		Mercury	0.2000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/22/91	04/22/91			DMETCLPTA	S1		114.0			%		Mercury	0.2000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	TRG		7.00	B		UG/L		Molybdenum	200.0000 JA	7	9					U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	S1		89.9			%		Molybdenum	200.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	TRG		8.60	B		UG/L		Molybdenum	200.0000 JA	7	9					U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	D		7.1750	B		UG/L		Molybdenum	200.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	S1		86.2			%		Molybdenum	200.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	D		7.6630	B		UG/L		Molybdenum	200.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		86.5			%		Nickel	40.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		9.7050	B		UG/L		Nickel	40.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		12.8630	B		UG/L		Nickel	40.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		12.60	B		UG/L		Nickel	40.0000 JA	9						U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		14.40	B		UG/L		Nickel	40.0000 JA	7	9					U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		88.4			%		Nickel	40.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		43386.830			UG/L		Potassium	5000.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		44300.00			UG/L		Potassium	5000.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		45761.480			UG/L		Potassium	5000.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		44600.00			UG/L		Potassium	5000.0000 V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/29/91			DMETCLPTA	TRG		2.00	UWN		UG/L		Selenium	5.0000 JA	14						
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/29/91			SMETCLPTC	D		2.0000	U		UG/L		Selenium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/29/91			SMETCLPTC	S1		60.0	N		%		Selenium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/29/91			DMETCLPTA	D		2.0000	B		UG/L		Selenium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/29/91			SMETCLPTC	TRG		2.00	BWN		UG/L		Selenium	5.0000 JA	12	14					
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/29/91			DMETCLPTA	S1		80.0			%		Selenium	5.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		9.40	B		UG/L		Silver	10.0000 JA	7	9					U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		88.0			%		Silver	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		87.3			%		Silver	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		8.8200	B		UG/L		Silver	10.0000							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		9.80	B		UG/L		Silver	10.0000 JA	7	9					U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		7.5320	B		UG/L		Silver	10.0000							

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SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		339000.00			UG/L		Sodium	5000.0000 V				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		344000.00			UG/L		Sodium	5000.0000 V				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		332345.798			UG/L		Sodium	5000.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		353522.243			UG/L		Sodium	5000.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	TRG		2310.00			UG/L		Strontium	200.0000 JA	9			
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	S1		92.5			%		Strontium	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	S1		97.3			%		Strontium	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	D		2366.299			UG/L		Strontium	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	D		2272.8020			UG/L		Strontium	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	TRG		2300.00			UG/L		Strontium	200.0000 JA	9			
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		78.0			%		Thallium	10.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		1.0000	U		UG/L		Thallium	10.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	BW		UG/L		Thallium	10.0000 JA	7			U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		1.0000	U		UG/L		Thallium	10.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		80.0			%		Thallium	10.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		1.00	U		UG/L		Thallium	10.0000 V				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	TRG		102.00	B		UG/L		Tin	200.0000 JA	9			U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	D		94.5210	B		UG/L		Tin	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	S1		87.0			%		Tin	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	TRG		98.70	B		UG/L		Tin	200.0000 JA	9			U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETNOCL	S1		90.0			%		Tin	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETNOCLP	D		97.5990	B		UG/L		Tin	200.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		90.2			%		Vanadium	50.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		13.9110	B		UG/L		Vanadium	50.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		14.3480	B		UG/L		Vanadium	50.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		15.10	B		UG/L		Vanadium	50.0000 JA	9			U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		88.2			%		Vanadium	50.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		14.90	B		UG/L		Vanadium	50.0000 JA	9			U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	S1		90.2			%		Zinc	20.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	S1		89.3			%		Zinc	20.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	D		3.4440	B		UG/L		Zinc	20.0000				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	TRG		5.90	B		UG/L		Zinc	20.0000 JA	7 9			U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Zinc	20.0000 V				
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409009A		04/25/91	04/30/91			SMETCLPTC	D		11.8290	B		UG/L		Zinc	20.0000				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		77.30	B		UG/L		Aluminum	200.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		1360.00			UG/L		Aluminum	200.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		20.90	B		UG/L		Antimony	60.0000 JA	7			U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		13.60	B		UG/L		Antimony	60.0000 JA	7			U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		2.00	B		UG/L		Arsenic	10.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	B		UG/L		Arsenic	10.0000 V				

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYTIC RESULT	RSLT QUA IFIER	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT V	REASONS 1 2 3 4	OLI RESULT	OLI UNIT OF MEASU	OLI QUA IFIER
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		65.00	B		UG/L		Barium	200.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		86.00	B		UG/L		Barium	200.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		1.00	U		UG/L		Beryllium	5.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Beryllium	5.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	U		UG/L		Cadmium	5.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		2.00	U		UG/L		Cadmium	5.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		122000.00			UG/L		Calcium	5000.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		140000.00			UG/L		Calcium	5000.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETNOCLP	TRG		112.00	U		UG/L		Cesium	1000.0000 V	56	110	UG/L	U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			DMETNOCL	TRG		112.00	U		UG/L		Cesium	1000.0000 V	56	110	UG/L	U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		9.20	B		UG/L		Chromium	10.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		10.50			UG/L		Chromium	10.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		3.00	U		UG/L		Cobalt	50.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		3.00	U		UG/L		Cobalt	50.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		10.10	B		UG/L		Copper	25.0000 JA	7			U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		8.40	B		UG/L		Copper	25.0000 JA	7			U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/19/91	04/19/91			SMETCLPTC	TRG		62.50	N		UG/L		Cyanide	10.0000 JA	12			
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		39.30	B		UG/L		Iron	100.0000 JA	7			U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		1550.00			UG/L		Iron	100.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/29/91			DMETCLPTA	TRG		1.00	U		UG/L		Lead	3.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/29/91			SMETCLPTC	TRG		2.70	BW		UG/L		Lead	3.0000 JA	14			
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETNOCL	TRG		170.00	E		UG/L		Lithium	100.0000 JA	17			
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETNOCLP	TRG		178.00	E		UG/L		Lithium	100.0000 JA	17			
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		30200.00			UG/L		Magnesium	5000.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		35200.00			UG/L		Magnesium	5000.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		5.50	B		UG/L		Manganese	15.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		25.80			UG/L		Manganese	15.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/22/91	04/22/91			DMETCLPTA	TRG		0.20	U		UG/L		Mercury	0.2000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/22/91	04/22/91			SMETCLPTC	TRG		0.20	U		UG/L		Mercury	0.2000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETNOCLP	TRG		4.30	B		UG/L		Molybdenum	200.0000 JA	7			U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETNOCL	TRG		5.10	B		UG/L		Molybdenum	200.0000 JA	7			U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		4.70	B		UG/L		Nickel	40.0000 JA	7			U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		4.60	B		UG/L		Nickel	40.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		23600.00			UG/L		Potassium	5000.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		23700.00			UG/L		Potassium	5000.0000 V				
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/29/91			DMETCLPTA	TRG		2.00	BWN		UG/L		Selenium	5.0000 JA	14			
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/29/91			SMETCLPTC	TRG		2.00	BWN		UG/L		Selenium	5.0000 JA	12	14		
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		5.00	B		UG/L		Silver	10.0000 JA	7			U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		5.60	B		UG/L		Silver	10.0000 JA	7			U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		206000.00			UG/L		Sodium	5000.0000 V				

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SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		202000.00			UG/L		Sodium	5000.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETNOCL	TRG		965.00			UG/L		Strontium	200.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETNOCLP	TRG		1140.00			UG/L		Strontium	200.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	BW		UG/L		Thallium	10.0000	JA	7						U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		1.00	U		UG/L		Thallium	10.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETNOCLP	TRG		54.40	B		UG/L		Tin	200.0000	JA	7						U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETNOCL	TRG		41.30	B		UG/L		Tin	200.0000	JA	7						U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		10.70	B		UG/L		Vanadium	50.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		14.30	B		UG/L		Vanadium	50.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409008A		04/25/91	04/30/91			SMETCLPTC	TRG		71.30			UG/L		Zinc	20.0000	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001A		04/25/91	04/30/91			DMETCLPTA	TRG		42.50			UG/L		Zinc	20.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		117.00	B		UG/L		Aluminum	200.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		10400.00			UG/L		Aluminum	200.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		9.10	B		UG/L		Antimony	60.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		8.00	U		UG/L		Antimony	60.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		3.00	B		UG/L		Arsenic	10.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	U		UG/L		Arsenic	10.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		128.00	B		UG/L		Barium	200.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		35.40	B		UG/L		Barium	200.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Beryllium	5.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		1.00	U		UG/L		Beryllium	5.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		3.20	B		UG/L		Cadmium	5.0000	JA	5						
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	U		UG/L		Cadmium	5.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		16200.00			UG/L		Calcium	5000.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		19400.00			UG/L		Calcium	5000.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETNOCLP	TRG		112.00	U		UG/L		Cesium	1000.0000	V				56	110	UG/L	U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETNOCL	TRG		112.00	U		UG/L		Cesium	1000.0000	V				56	110	UG/L	U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		16.90			UG/L		Chromium	10.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		5.00	U		UG/L		Chromium	10.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		3.00	U		UG/L		Cobalt	50.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		5.80	B		UG/L		Cobalt	50.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		2.90	B		UG/L		Copper	25.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		32.10			UG/L		Copper	25.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/19/91	04/19/91			SMETCLPTC	TRG		2.50	UN		UG/L		Cyanide	10.0000	JA	8	12					
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		80.30	B		UG/L		Iron	100.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		14000.00			UG/L		Iron	100.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/29/91			DMETCLPTA	TRG		1.00	U		UG/L		Lead	3.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/29/91			SMETCLPTC	TRG		37.20			UG/L		Lead	3.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETNOCL	TRG		22.50	BE		UG/L		Lithium	100.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETNOCLP	TRG		20.30	BE		UG/L		Lithium	100.0000	JA	7						U

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYTIC RESULT	RSLT QUALIFIER	2 SIG ERROR	UNIT OF MEASU	RETENTION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	V	REASONS 1	2	3	4	QLI RESULT	QLI UNIT OF MEASU	QLI QUALIFIER
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		5680.00			UG/L		Magnesium	5000.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		3150.00	B		UG/L		Magnesium	5000.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		517.00			UG/L		Manganese	15.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		53.60			UG/L		Manganese	15.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/23/91	04/23/91			SMETCLPTC	TRG		0.20	U		UG/L		Mercury	0.2000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/22/91	04/22/91			DMETCLPTA	TRG		0.20	U		UG/L		Mercury	0.2000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETNOCLP	TRG		4.10	B		UG/L		Molybdenum	200.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETNOCL	TRG		3.00	U		UG/L		Molybdenum	200.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		4.00	U		UG/L		Nickel	40.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		14.30	B		UG/L		Nickel	40.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		8320.00			UG/L		Potassium	5000.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		7540.00			UG/L		Potassium	5000.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/29/91			SMETCLPTC	TRG		2.00	UWN		UG/L		Selenium	5.0000	JA	12	14					
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/29/91			DMETCLPTA	TRG		2.00	UN		UG/L		Selenium	5.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		3.00	U		UG/L		Silver	10.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		4.30	B		UG/L		Silver	10.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		47300.00			UG/L		Sodium	5000.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		44500.00			UG/L		Sodium	5000.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETNOCL	TRG		98.60	B		UG/L		Strontium	200.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETNOCLP	TRG		121.00	B		UG/L		Strontium	200.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Thallium	10.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	05/01/91			SMETCLPTC	TRG		1.00	UW		UG/L		Thallium	10.0000	JA	14						
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETNOCLP	TRG		44.30	B		UG/L		Tin	200.0000	JA	7						U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETNOCL	TRG		11.00	U		UG/L		Tin	200.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		2.40	B		UG/L		Vanadium	50.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		29.30	B		UG/L		Vanadium	50.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007A		04/25/91	04/30/91			DMETCLPTA	TRG		33.40			UG/L		Zinc	20.0000	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409014A		04/25/91	04/30/91			SMETCLPTC	TRG		279.00			UG/L		Zinc	20.0000	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		9.00	U		UG/L		Aluminum	200.0000	JA	8						
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		14.70	B		UG/L		Aluminum	200.0000	JA	7						U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		8.00	U		UG/L		Antimony	60.0000	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		8.00	U		UG/L		Antimony	60.0000	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	U		UG/L		Arsenic	10.0000	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		2.00	U		UG/L		Arsenic	10.0000	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		2.40	B		UG/L		Barium	200.0000	JA	7						U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		2.40	B		UG/L		Barium	200.0000	JA	7						U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Beryllium	5.0000	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		1.00	U		UG/L		Beryllium	5.0000	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		2.00	U		UG/L		Cadmium	5.0000	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	U		UG/L		Cadmium	5.0000	V							

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SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	U		UG/L		Cadmium	5.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		121.00	B		UG/L		Calcium	5000.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		264.00	B		UG/L		Calcium	5000.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETNOCL	TRG		112.00	U		UG/L		Cesium	1000.0000 V	5 6	110	UG/L	U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETNOCLP	TRG		112.00	U		UG/L		Cesium	1000.0000 V	5 6	110	UG/L	U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		5.00	U		UG/L		Chromium	10.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		5.00	U		UG/L		Chromium	10.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		3.00	U		UG/L		Cobalt	50.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		3.00	U		UG/L		Cobalt	50.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	U		UG/L		Copper	25.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		3.80	B		UG/L		Copper	25.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/19/91	04/19/91			SMETCLPTC	TRG		2.50	UN		UG/L		Cyanide	10.0000 JA	12			
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		44.30	B		UG/L		Iron	100.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		107.00			UG/L		Iron	100.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/29/91			DMETCLPTA	TRG		1.00	U		UG/L		Lead	3.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/29/91			SMETCLPTC	TRG		1.00	U		UG/L		Lead	3.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETNOCL	TRG		17.20	BE		UG/L		Lithium	100.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETNOCLP	TRG		26.20	BE		UG/L		Lithium	100.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		12.90	B		UG/L		Magnesium	5000.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		59.00	B		UG/L		Magnesium	5000.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		1.30	B		UG/L		Manganese	15.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/22/91	04/22/91			DMETCLPTA	TRG		0.20	U		UG/L		Mercury	0.2000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/23/91	04/23/91			SMETCLPTC	TRG		0.20	U		UG/L		Mercury	0.2000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETNOCLP	TRG		11.30	B		UG/L		Molybdenum	200.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETNOCL	TRG		7.60	B		UG/L		Molybdenum	200.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		4.00	U		UG/L		Nickel	40.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		4.00	U		UG/L		Nickel	40.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		198.00	B		UG/L		Potassium	5000.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		142.00	B		UG/L		Potassium	5000.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/29/91			DMETCLPTA	TRG		2.00	UN		UG/L		Selenium	5.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/29/91			SMETCLPTC	TRG		2.00	UN		UG/L		Selenium	5.0000 JA	12			
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		3.00	U		UG/L		Silver	10.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		3.50	B		UG/L		Silver	10.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		288.00	B		UG/L		Sodium	5000.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		93.80	B		UG/L		Sodium	5000.0000 JA	7			U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETNOCLP	TRG		3.60	B		UG/L		Strontium	200.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETNOCL	TRG		2.70	B		UG/L		Strontium	200.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	05/01/91			SMETCLPTC	TRG		1.00	U		UG/L		Thallium	10.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	UW		UG/L		Thallium	10.0000 V				
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETNOCLP	TRG		13.00	B		UG/L		Tin	200.0000 JA	7			U

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SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETNOCL	TRG		12.40	B		UG/L		Tin	200.0000	JA	7						U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	U		UG/L		Vanadium	50.0000	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		2.50	B		UG/L		Vanadium	50.0000	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409012A		04/25/91	04/30/91			SMETCLPTC	TRG		5.00	B		UG/L		Zinc	20.0000	JA	7						U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005A		04/25/91	04/30/91			DMETCLPTA	TRG		1.10	B		UG/L		Zinc	20.0000	JA	7						U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		301.00			UG/L		Aluminum	200.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		121.00	B		UG/L		Aluminum	200.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		36.20	B		UG/L		Antimony	60.0000	JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		37.00	B		UG/L		Antimony	60.0000	JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		2.00	U		UG/L		Arsenic	10.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		2.00	U		UG/L		Arsenic	10.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		237.00			UG/L		Barium	200.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		228.00			UG/L		Barium	200.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		1.00	U		UG/L		Beryllium	5.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Beryllium	5.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		4.00	B		UG/L		Cadmium	5.0000	JA	9						U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		2.70	B		UG/L		Cadmium	5.0000	JA	9						U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		258000.00			UG/L		Calcium	5000.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		268000.00			UG/L		Calcium	5000.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETNOCLP	TRG		112.00	U		UG/L		Cesium	1000.0000	V				56	110	UG/L	U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETNOCL	TRG		112.00	U		UG/L		Cesium	1000.0000	V				56	110	UG/L	U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		22.10			UG/L		Chromium	10.0000	JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		16.80			UG/L		Chromium	10.0000	JA	9						U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		8.00	B		UG/L		Cobalt	50.0000	JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		6.20	B		UG/L		Cobalt	50.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		20.00	B		UG/L		Copper	25.0000	JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		6.90	B		UG/L		Copper	25.0000	JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/19/91	04/19/91			SMETCLPTC	TRG		2.50	UN		UG/L		Cyanide	10.0000	JA	8	12	99				
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		37.10	B		UG/L		Iron	100.0000	JA	7						U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		628.00			UG/L		Iron	100.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/29/91			DMETCLPTA	TRG		1.00	U		UG/L		Lead	3.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/29/91			SMETCLPTC	TRG		1.00	U		UG/L		Lead	3.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETNOCL	TRG		322.00	E		UG/L		Lithium	100.0000	JA	9						U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETNOCLP	TRG		303.00	E		UG/L		Lithium	100.0000	JA	17						
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		80400.00			UG/L		Magnesium	5000.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		81900.00			UG/L		Magnesium	5000.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		4.10	B		UG/L		Manganese	15.0000	JA	9						U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Manganese	15.0000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/23/91	04/23/91			SMETCLPTC	TRG		0.20	U		UG/L		Mercury	0.2000	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/22/91	04/22/91			DMETCLPTA	TRG		0.20	U		UG/L		Mercury	0.2000	V							

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	SAMPLE COLLECTION TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	SAMPLE ANALYSIS TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYTIC RESULT	RSLT QUA IFIER	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT V	REASONS 1	REASONS 2	REASONS 3	REASONS 4	QLI RESULT	QLI UNIT OF MEASU	QLI QUA IFIER
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETNOCLP	TRG		9.80	B		UG/L		Molybdenum	200.0000 JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETNOCL	TRG		7.60	B		UG/L		Molybdenum	200.0000 JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		9.80	B		UG/L		Nickel	40.0000 JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		16.60	B		UG/L		Nickel	40.0000 JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		45800.00			UG/L		Potassium	5000.0000 V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		43900.00			UG/L		Potassium	5000.0000 V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/29/91			DMETCLPTA	TRG		2.00	BWN		UG/L		Selenium	5.0000 JA	14						
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		4.20	BSN		UG/L		Selenium	5.0000 V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		10.30			UG/L		Silver	10.0000 JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		7.90	B		UG/L		Silver	10.0000 JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		370000.00			UG/L		Sodium	5000.0000 V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		353000.00			UG/L		Sodium	5000.0000 V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETNOCL	TRG		2390.00			UG/L		Strontium	200.0000 V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETNOCLP	TRG		2280.00			UG/L		Strontium	200.0000 JA	9						U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Thallium	10.0000 V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	05/01/91			SMETCLPTC	TRG		1.00	UW		UG/L		Thallium	10.0000 JA	14						
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETNOCL	TRG		95.00	B		UG/L		Tin	200.0000 JA	9						U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETNOCLP	TRG		104.00	B		UG/L		Tin	200.0000 JA	9						U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		14.90	B		UG/L		Vanadium	50.0000 JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		13.90	B		UG/L		Vanadium	50.0000 V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409013A		04/25/91	04/30/91			SMETCLPTC	TRG		8.00	B		UG/L		Zinc	20.0000 JA	7	9					U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006A		04/25/91	04/30/91			DMETCLPTA	TRG		1.00	U		UG/L		Zinc	20.0000 V							
$$$																											

CONTRACTOR WOODWARD-CLYDE FEDERAL SERVICES SAMPLERS D. BURGESS, B. MONTGOMERY, R. LATIN PROJECT # 4002-410

SITE CONTACT/PHONE Bruce LaRue (303) 966-5874 Bruce 4-16-91

LAB/LOCATION ~~WESTON GULF COAST/UNIV. PK., IL~~ IT Export / Export, CA

C-O-C NUMBER WC-EX0005 (4of7)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

03/28/91

DATE/TIME		SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER OF CONTAINERS	MEDIA SOIL(S) WATER (W)	FILTERED=F POT DISS=P	TURN AROUND RUSH=R	OUT OF SPEC REPORTS REQUIRED	PRESERVATIVE: COOLED TO 4 C Y/N	Zn(C2H3O2)2	NAOH	HNO3	H2SO4	Na2S2O3	A VOA-CLP PRESERVED WITH HCL	B BNA-CLP	C PEST/PCB-CLP	D TRIAZINES	E OIL AND GREASE	F METALS, Cs, Li, Sr, Sn, Mo - S	G CN PRESERVED WITH ~~NaOH~~	H TSS, TDS, Cl, F, SO4, CO3, HCO3, SiNO2	I Tot Phos, NO3/NO2, NH4	J o-Phos N O 2	K H2S	L TOC DOC IF FILTERED	M GROSS A/B	N Pu239/240, Am241	O U233/234, 235, 238	P Sr89/90, Cs137, Ra226, 228	Q H3	R RADIATION SCREEN
4/11/91	1510	SW8011ØWC	SW094	40 ML AG	2	W				Y						A															
	1510	.	.	1 L AG	1	W				Y				X						E											
	1510	.	.	1 L POLY	1	W	F			Y			X							F											
	1515	.	.	1 L POLY	1	W				Y			X							F											
	1525	.	.	1 L POLY	1	W				Y		X									G										
	1520	.	.	1 L POLY	1	W				Y												H									
	1525	.	.	500 ML POLY	1	W				Y				X									I								
	1520	.	.	250 ML POLY	1	W				Y														J							
	1520	.	.	500 ML POLY	1	W				Y	X	X													K						
	1520	.	.	125 ML AG	1	W				Y				X											L						
	1510	.	.	125 ML AG	1	W	F			Y				X											L						
	1515			1L AG	2	W				Y							B														
4/11/91	1515	SW8011ØWC	SW094	1L AG	2	W				Y								C													
				SSS 11-10-91																												

RELINQUISHED BY	DATE/TIME		RECEIVED BY	DATE/TIME	
[signature]	4/11/91	1715	[signature]	4/11/91	1715
[signature]	4/16/91	1700	J Smith FT Pitt	4/17/91	0840

REMARKS

SHIPMENT METHOD Fed Ex

LABORATORY USE ONLY	Y / N
PCKG REC'D/CUSTODY SEALS INTACT	Y
SAMPLE LABELS/COCs AGREE	Y
TEMPERATURE WITHIN SPECIFICATION 3 C	
CORRECTED COPY ATTACHED	
OTHER PROBLEMS OR DISCREPANCIES	

000441

CONTRACTOR WOODWARD-CLYDE FEDERAL SERVICES SAMPLERS DANIEL BURGESS, BRIAN MONTGOMERY, ROBERT LATH PROJECT # 4002-410

SITE CONTACT/PHONE Bruce LaRue (303) 966-5874

LAB/LOCATION ~~WESTON GULF COAST /UNIV. PK., IL~~ BWL 4-16-91 IT Export / Export, PA

C-O-C NUMBER WC-EX0005 (1 of 7)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

04/05/91

DATE	TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER OF CONTAINERS	MEDIA SOIL(S) WATER (W)	FILTERED=F POT DISS=P	TURN AROUND RUSH=R	OUT OF SPEC REPORTS REQUIRED	COOLED TO 4 C Y/N	PRESERVATIVE $Zn(C_2H_3O_2)_2$	NAOH	HNO_3	H_2SO_4	$Na_2S_2O_3$
4/11/91	1250	SW01064WC	SW094	40 ML AG	2	W				Y					
	1300	.	.	1 L AG	1	W				Y				X	
	1350	.	.	1 L POLY	1	W	F			Y			X		
	1440	.	.	1 L POLY	1	W				Y			X		
	1500	.	.	1 L POLY	1	W				Y		X			
	1415	.	.	1 L POLY	1	W				Y					
	1450	.	.	500 ML POLY	1	W				Y				X	
	1350	.	.	250 ML POLY	1	W				Y					
	1430	.	.	500 ML POLY	1	W				Y	X	X			
	1400	.	.	125 ML AG	1	W				Y				X	
	1400	.	.	125 ML AG	1	W	F			Y				X	
	1320			1L AG	2	W				Y					
4/11/91	1335	SW01064WC	SW094	1L AG	2	W				Y					

SSS 4-16-91

TIME	A VOA-CLP ~~PRESERVED WITH HCL~~	B BNA-CLP	C PEST/PCB-CLP	D TRIAZINES	E OIL AND GREASE	F METALS, Cs, Li, Sr, Sn, Mo, Si	G CN ~~PRESERVED WITH C6H8O6~~	H TSS, TDS, Cl, F, SO4, CO3, HCO3, ~~NH4~~, NO3	I Tot Phos, NO3/NO2, ~~NH4~~	J o-Phos NO2	K H2S	L TOC DOC IF FILTERED	M GROSS A/B	N Pu239/240, Am241	O U233/234, 235, 238	P Sr89/90, Cs137, Ra226, 228	Q H3	RADIATION SCREEN
1250	A																	
1300					E													
1350						F												
1440						F												
1500							G											
1415								H										
1450									I									
1350										J								
1430											K							
1400												L						
1400												L						
1320		B																
1335			C															

R = M–Q

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	4/11/91	1715	[signature]	4-11-91	1715
[signature]	4/16/91	1700	[signature] IT R. EX	4/17/91	0940

REMARKS

SHIPMENT METHOD Fed EX

LABORATORY USE ONLY	Y / N
PCKG REC'D/CUSTODY SEALS INTACT	Y
SAMPLE LABELS/COCs AGREE	Y
TEMPERATURE WITHIN SPECIFICATION 3 C	
CORRECTED COPY ATTACHED	
OTHER PROBLEMS OR DISCREPANCIES	

000412

CONTRACTOR WOODWARD-CLYDE FEDERAL SERVICES SAMPLERS D. BURGESS, B. MONTGOMERY, R. LAHN PROJECT # 4002-410

SITE CONTACT/PHONE Bruce LaRue (303) 966-5874

LAB/LOCATION ~~WESTON GULF COAST /UNIV. PK., IL~~ RLL 4-11-91 IT Export / Export, PA

C-O-C NUMBER WC-EX0005 (2 of 7)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

04/05/91

DATE	TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER OF CONTAINERS	MEDIA SOIL(S) WATER (W)	FILTERED=F POT DISS=P	TURN AROUND RUSH =R	OUT OF SPEC REPORTS REQUIRED	COOLED TO 4 C Y/N	Zn(C2H3O2)2	NAOH	HNO3	H2SO4	Na2S2O3	A VOA-CLP ~~PRESERVED WITH HCL~~	B BNA-CLP	C PEST/PCB-CLP	D TRIAZINES	E OIL AND GREASE	F METALS, Cs, Li, Sr, Sn, Mo, Si	G CN ~~PRESERVED WITH C6H8O6~~	H TSS, TDS, Cl, F, SO4, CO3, HCO3, NO3	I Tot Phos, NO3/NO2, NH4	J o-Phos, NO2	K H2S	L TOC DOC IF FILTERED	M GROSS A/B	N Pu239/240, Am241	O U233/234, 235, 238	P Sr89/90, Cs137, Ra226, 228	Q H3	RADIATION SCREEN
4/11/91	1250	SW010LAWCMS	SW094	40 ML AG	2	W				Y						A																	
	1300	.	.	1 L AG	1	W				Y				X						E													
	1350	.	.	1 L POLY	1	W	F			Y			X								F												
	1440	.	.	1 L POLY	1	W				Y			X								F												
	1500	.	.	1 L POLY	1	W				Y		X										G											
	1415	.	.	1 L POLY	1	W				Y													H										
	1450	.	.	500 ML POLY	1	W				Y				X										I									
	1350	.	.	250 ML POLY	1	W				Y															J								
	1430	.	.	500 ML POLY	1	W				Y	X	X														K							
	1400	.	.	125 ML AG	1	W				Y				X													L						
	1400	.	.	125 ML AG	1	W	F			Y				X													L						
	1330			1L AG	2	W				Y							B																
4/11/91	1335	SW010LAWCMS	Sw094	1L AG	2	W				Y								C															

SSS 4-16-91

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	4/11/91	1845	[signature]	4/11/91	1845
[signature]	4/16/91	1500	J. Smith IT PA[illegible]	4-17-91	0940

REMARKS

SHIPMENT METHOD Fed EX

LABORATORY USE ONLY	Y / N
PCKG REC'D/CUSTODY SEALS INTACT	Y
SAMPLE LABELS/COCs AGREE	Y
TEMPERATURE WITHIN SPECIFICATION 3 C	
CORRECTED COPY ATTACHED	
OTHER PROBLEMS OR DISCREPANCIES	

CONTRACTOR WOODWARD-CLYDE FEDERAL SERVICES SAMPLERS D. BURGESS, B. MONTGOMERY R LAHN PROJECT # 4002-410

SITE CONTACT/PHONE Bruce LaRue (303) 966-5874

LAB/LOCATION ~~WESTON GULF COAST / UNIV PK, IL~~ BWL 4-16-91 IT Export / Export, CA

C-O-C NUMBER WC-EXØØØ5 (3 of 7)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

DATE/TIME		SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER OF CONTAINERS	MEDIA SOIL(S) WATER (W)	FILTERED=F POT DISS=P	TURN AROUND RUSH =R	OUT OF SPEC REPORTS REQUIRED	PRESERVATIVE: COOLED TO 4 C Y/N	Zn(C2H3O2)2	NAOH	HNO3	H2SO4	Na2S2O3	A VOA-CLP PRESERVED WITH HCL	B BNA-CLP	C PEST/PCB-CLP	D TRIAZINES	E OIL AND GREASE	F METALS, Cs, Li, Sr, Sn, Mo	G CN PRESERVED WITH ~~C6H806~~	H TSS, TDS, Cl, F, SO4, CO3, HCO3, Si, NO2	I Tot Phos, NO3/NO2, NH4	J o-Phos	K H2S	L TOC DOC IF FILTERED	M (R) GROSS A/B	N (R) Pu239/240, Am241	O (R) U233/234, 235, 238	P (R) Sr89/90, Cs137, Ra226, 228	Q (R) H3	RADIATION SCREEN
4/11/91	1250	SWØ1Ø64WCMSD	SWØ94	40mL AG	2	W				Y						A																	
1	1320	1	1	1L AG	2	W				Y							B																
4/11/91	1335	SWØ1Ø64WCMSD	SWØ94	1L AG	2	W				Y								C															

SSS 4-16-91

RELINQUISHED BY	DATE/TIME		RECEIVED BY	DATE/TIME	
[signature]	4/11/91	1715	[signature]	4-16-91	1715
[signature]	4/16/91	1700	Jamath IT [illegible]	4-17-91	0940

REMARKS

SHIPMENT METHOD Fed EX

LABORATORY USE ONLY	Y / N
PCKG REC'D/CUSTODY SEALS INTACT	Y
SAMPLE LABELS/COCs AGREE	Y
TEMPERATURE WITHIN SPECIFICATION 3 C	
CORRECTED COPY ATTACHED	
OTHER PROBLEMS OR DISCREPANCIES	

000444

CONTRACTOR WOODWARD-CLYDE FEDERAL SERVICES SAMPLERS D BURGESS, B MONTGOMERY, R. LAHN PROJECT # 4002-410

SITE CONTACT/PHONE Bruce LaRue (303) 966-5874

LAB/LOCATION ~~WESTON GULF COAST /UNIV. PK., IL~~ IT Export / Export PA

C-O-C NUMBER WC-EXØØØ5 (7 of 7)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

04/05/91

DATE/TIME		SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER OF CONTAINERS	MEDIA SOIL(S) WATER (W)	FILTERED=F POT DISS=P	TURN AROUND RUSH =R	OUT OF SPEC REPORTS REQUIRED	COOLED TO 4 C Y/N	Zn(C2H3O2)2	NAOH	HNO3	H2SO4	Na2S2O3	A VOA-CLP	B BNA-CLP	C PEST/PCB-CLP	D TRIAZINES	E OIL AND GREASE	F METALS, Cs, Li, Sr, Sn, Mo	G CN	H TSS, TDS, Cl, F, SO4, CO3, HCO3	I Tot Phos, NO3/NO2	J o-Phos	K H2S	L TOC DOC IF FILTERED	M GROSS A/B	N Pu239/240, Am241	O U233/234, 235, 238	P Sr89/90, Cs137, Ra226, 228	Q H3	RADIATION SCREEN
4/11/91	1530	SWØ1065WC	SWØ95	40 ML AG	2	W				Y						A																	
	1540	SWØ1065WC	.	1 L AG	1	W				Y				X						E													
	1530	.	.	1 L POLY	1	W	F			Y			X								F												
	1545	.	.	1 L POLY	1	W				Y			X								F												
	1555	.	.	1 L POLY	1	W				Y		X										G											
	1550	.	.	1 L POLY	1	W				Y													H										
	1555	.	.	500 ML POLY	1	W				Y				X										I									
	1545	.	.	250 ML POLY	1	W				Y															J								
	1550	.	.	500 ML POLY	1	W				Y	X	X														K							
	1550	.	.	125 ML AG	1	W				Y				X													L						
	1530	.	.	125 ML AG	1	W	F			Y				X													L						
	1540	.	.	1L AC	2	W				Y							B																
4/11/91	1540	SWØ1065WC	SWØ95	1L AG	2	W				Y								C															

sss 4-16-91

RELINQUISHED BY	DATE/TIME		RECEIVED BY	DATE/TIME	
[signature]	4/11/91	1715	[signature]	4/11/91	1715
[signature]	4/16/91	1700	J. Smith IT Pitt	4-17-91	0840

REMARKS

SHIPMENT METHOD Fed EX

LABORATORY USE ONLY	Y/N
PCKG REC'D/CUSTODY SEALS INTACT	Y
SAMPLE LABELS/COCs AGREE	Y
TEMPERATURE WITHIN SPECIFICATION 3 C	
CORRECTED COPY ATTACHED	
OTHER PROBLEMS OR DISCREPANCIES	

CONTRACTOR WOODWARD-CLYDE FEDERAL SERVICES SAMPLERS P.S. Burger, P.B. Montgomery PROJECT # 4002-410

SITE CONTACT/PHONE Bruce LaRue (303) 966-5874

LAB/LOCATION ~~WESTON GULF COAST/UNIV. PK., IL~~ IT Export / Evatest, PA

C-O-C NUMBER WC-EX0005 (6of7)

EG&G ROCKY FLATS PLANT
CHAIN OF CUSTODY

04/15/91

DATE/TIME		SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER OF CONTAINERS	MEDIA SOIL(S) WATER (W)	FILTERED=F POT DISS=P	TURN AROUND RUSH =R	OUT OF SPEC REPORTS REQUIRED	PRESERVATIVE: COOLED TO 4 C Y/N	Zn(C2H3O2)2	NAOH	HNO3	H2SO4	Na2S2O3	A VOA-CLP PRESERVED WITH HCl	B BNA-CLP	C PEST/PCB-CLP	D TRIAZINES	E OIL AND GREASE	F METALS, Cs, Li, Sr, Sn, Mo	G CN PRESERVED WITH C6H8O6	H TSS, TDS, Cl, F, SO4, CO3, HCO3, NO3	I Tot Phos, NO3/NO2,	J o-Phos	K H2S	L TOC DOC IF FILTERED	M GROSS A/B	N Pu239/240, Am241	O U233/234, 235, 238	P Sr89/90, Cs137, Ra226, 228	Q H3	R RADIATION SCREEN
4/11/91	1000	SW01068WC	SW017	40 ML AG	2	W				Y						A																
	1000	.	.	1 L AG	1	W				Y				X						E												
	1005	.	.	1 L POLY	1	W	F			Y			X								F											
	1025	.	.	1 L POLY	1	W				Y			X								F											
	1050	.	.	1 L POLY	1	W				Y		X										G										
	1030	.	.	1 L POLY	1	W				Y													H									
	1050	.	.	500 ML POLY	1	W				Y				X										I								
	1025	.	.	250 ML POLY	1	W				Y															J							
	1040	.	.	500 ML POLY	1	W				Y	X	X														K						
	1030	.	.	125 ML AG	1	W				Y				X													L					
	1000	.	.	125 ML AG	1	W	F			Y				X													L					
	1020	↓	↓	1 EAG	2	W				Y							B															
4/11/91	1015	SW01068WC	SW017	1 EAG 355 4-16-91	2	W				Y								C														

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
B Montgomery	4/11/91 1640		
	4-16-91 1700	J Smith FedEx	4-18-91 0900

REMARKS

SHIPMENT METHOD Fed Ex

LABORATORY USE ONLY	Y / N
PCKG REC'D/CUSTODY SEALS INTACT	Y
SAMPLE LABELS/COCs AGREE	Y
TEMPERATURE WITHIN SPECIFICATION 10 C	
CORRECTED COPY ATTACHED	
OTHER PROBLEMS OR DISCREPANCIES: Cooler Lost by FedX; Cooler Received 4-18-91	

000446

CONTRACTOR WOODWARD-CLYDE FEDERAL SERVICES SAMPLERS D BURGESS, B. MONTGOMERY, R. LAHN PROJECT # 4002-410

SITE CONTACT/PHONE Bruce LaRue (303) 966-5874

LAB/LOCATION ~~WESTON GULF COAST /UNIV. PK, IL~~ IT Export [initials] 4-12-91

C-O-C NUMBER WC-EX0005 (5 of 7)

EG&G ROCKY FLATS PLANT CHAIN OF CUSTODY

03/28/91

DATE	TIME	SAMPLE NUMBER	LOCATION	CONTAINER TYPE	NUMBER OF CONTAINERS	MEDIA SOIL(S) WATER (W)	FILTERED=F POT DISS=P	TURN AROUND RUSH =R	OUT OF SPEC REPORTS REQUIRED	COOLED TO 4 C Y/N	Zn(C2H3O2)2	NAOH	HNO3	H2SO4	Na2S2O3	A VOA-CLP PRESERVED WITH HCL	B BNA-CLP	C PEST/PCB-CLP	D TRIAZINES	E OIL AND GREASE	F METALS, Cs, Li, Sr, Sn, Mo	G CN PRESERVED WITH ~~C6H8O6~~	H TSS, TDS, Cl, F, SO4, CO3, HCO3, Si, NO3	I Tot Phos, NO3/NO2, NH4	J o-Phos	K H2S	L TOC DOC IF FILTERED	M GROSS A/B	N Pu239/240, Am241	O U233/234, 235, 238	P Sr89/90, Cs137, Ra226, 228	Q H3	RADIATION SCREEN
4/11/91	1250	SW80111WC	SW094	40 ML AG	2	W				Y						A																	
	1300	.	.	1 L AG	1	W				Y				X						E													
	1350	.	.	1 L POLY	1	W	F			Y			X								F												
	1440	.	.	1 L POLY	1	W				Y			X								F												
	1500	.	.	1 L POLY	1	W				Y		X										G											
	1415	.	.	1 L POLY	1	W				Y													H										
	1450	.	.	500 ML POLY	1	W				Y				X										I									
	1350	.	.	250 ML POLY	1	W				Y															J								
	1430	.	.	500 ML POLY	1	W				Y	X	X														K							
	1400	.	.	125 ML AG	1	W				Y				X													L						
	1400	.	.	125 ML AG	1	W	F			Y				X													L						
	1320			1L AG	2	W				Y							B																
4/11/91	1335	SW80111WC	SW094	1L AG	2	W				Y								C															

R = columns M–Q

SSS 4-16-91

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	4/11/91	1715	[signature]	4/11/91	1715
[signature]	4/16/91	1700	J. Smith IT Pitt	4-18-91	0900

REMARKS

SHIPMENT METHOD Fed EX

LABORATORY USE ONLY	Y / N
PCKG REC'D/CUSTODY SEALS INTACT	Y
SAMPLE LABELS/COCs AGREE	Y
TEMPERATURE WITHIN SPECIFICATION 10 C	
CORRECTED COPY ATTACHED	
OTHER PROBLEMS OR DISCREPANCIES Cooler was lost in shipping by FeDX. Cooler was Received 4-18-91	

Cyanide pH ≈ 7 - analyze as is as per Bruce LaRue

000447

EG&G EM Department
Rocky Flats Plant

(6/20/91)

EM DEPARTMENT DATA ASSESSMENT SUMMARY REPORT FORM

Batch No. 9104P128 **Site** Surface Water

Laboratory ITAS - Pittsburgh **No. of Samples/Matrix** 5/Water

Method Standard Methods **Reviewer Org.** QuantaLex, Inc.

Sample Numbers SW01064WC, SW01065WC, SW01068WC, SW80110WC, SW80111WC

Data Assessment Summary

		TOC/ DOC	F/ Silica	Phos.	Alkal.	Cl	Nitrate/ Nitrite	Sulfide/ Sulfate	Oil&Grease Grav.	Comments
1.	Holding Times	V	V	A	V	V	A	V	V	Action Item 1
2.	Calibrations	V	V	V	V	V	V	V	V	
3.	Blanks	V	V	V	V	V	V	V	V	
4.	Lab Control Sample Results	V	V	N/A	V	V	N/A	V	V	
5.	Duplicate Sample Results	V	V	V	V	V	V	V	A	Action Item 2
6.	Matrix Spike Sample Results	V	V	V	V	V	V	V	N/A	
7.	Sample Verification	V	V	V	V	V	V	V	V	
8.	Other QC	V	V	V	X	V	V	V	X	Comments 1-2
9.	Overall Assessment	V	V	A	V	V	A	V	A	Data valid or acceptable with qualifications

V = Data had no problems.
A = Data acceptable but qualified due to problems.
R = Data rejected.
X = Problems, but do not affect data.
N/A = Not applicable.

Data Quality: Data contained in this batch were reviewed and found to be valid or acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Results Summary Tables).

Action Items: 1) All o-Phosphate and Nitrite values are estimated (J), and non-detects are estimated and undetected (UJ) because the holding times were grossly exceeded.

2) All TSS values are estimated (J), and all non-detects are estimated and undetected (UJ) because the duplicate precision criteria were not met.

Comments: 1) A duplicate was not analyzed for Oil & Grease; data not affected.

2) All Carbonate non-detects are reported to the IDL; correct values appear on the Summary Table.

Note: Data Summary Tables are attached.

William H. Meice
Validator Signature

6/24/91
Date

Reviewer Signature

6/24/91
Date

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	SAMPLE COLLECTION TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	SAMPLE ANALYSIS TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYTIC RESULT	RSLT QUA IFIER	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	V	REASONS 1	2	3	4	QLI RESULT	QLI UNIT OF MEASU	QLI QUA FIER
MB 04/17/91			P128	WATER	MB 04/17/91			04/17/91				TRG		0.01	U		MG/L		ORTHOPHOSPHATE	0.01									
MB 04/18/91			P128	WATER	MB 04/18/91			04/18/91				TRG		1	U		MG/L		DISSOLVED ORGANIC CA	1.0									
MB 04/18/91			P128	WATER	MB 04/18/91			04/18/91				TRG		0.02	U		MG/L		NITRITE	0.02									
MB 04/18/91			P128	WATER	MB 04/18/91			04/18/91				TRG		0.01	U		MG/L		ORTHOPHOSPHATE	0.01									
MB 04/18/91			P128	WATER	MB 04/18/91			04/18/91				TRG		1	U		MG/L		SULFIDE	2.0									
MB 04/18/91			P128	WATER	MB 04/18/91			04/18/91				TRG		10	U		MG/L		TOTAL DISSOLVED SOLID	10.0									
MB 04/18/91			P128	WATER	MB 04/18/91			04/18/91				TRG		4	U		MG/L		TOTAL SUSPENDED SOLID	4.0									
MB 04/22/91			P128	WATER	MB 04/22/91			04/22/91				TRG		0.1	U		MG/L		FLUORIDE	0.1									
MB 04/22/91			P128	WATER	MB 04/22/91			04/22/91				TRG		0.4	U		MG/L		SILICA	0.4									
MB 04/23/91			P128	WATER	MB 04/23/91			04/23/91				TRG		0.02	U		MG/L		NITRATE/NITRITE	0.02									
MB 04/23/91			P128	WATER	MB 04/23/91			04/23/91				TRG		0.2	U		MG/L		NITRATE/NITRITE	0.02									
MB 04/24/91			P128	WATER	MB 04/24/91			04/24/91				TRG		1			MG/L		BICARBONATE	1.0									
MB 04/24/91			P128	WATER	MB 04/24/91			04/24/91				TRG		0			MG/L		CARBONATE	1.0									
MB 04/24/91			P128	WATER	MB 04/24/91			04/24/91				TRG		0.6			MG/L		CHLORIDE	0.2									
MB 04/24/91			P128	WATER	MB 04/24/91			04/24/91				TRG		1	U		MG/L		DISSOLVED ORGANIC CA	1.0									
MB 04/24/91			P128	WATER	MB 04/24/91			04/24/91				TRG		0.2	U		MG/L		OIL & GREASE	0.2									
MB 04/24/91			P128	WATER	MB 04/24/91			04/24/91				TRG		1	U		MG/L		TOTAL ORGANIC CARBON	1.0									
MB 04/25/91			P128	WATER	MB 04/25/91			04/25/91				TRG		2	U		MG/L		SULFATE	2.0									
MB 04/26/91			P128	WATER	MB 04/26/91			04/26/91				TRG		0.01	U		MG/L		TOTAL PHOSPHATE	0.01									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/24/91				S		86			%		BICARBONATE	1.0									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/24/91				D		300			MG/L		BICARBONATE	1.0									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/24/91				TRG		300			MG/L		BICARBONATE	1.0	V								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/24/91				TRG		0			MG/L		CARBONATE	1.0	V				99	1.0			U
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/24/91				D		0			MG/L		CARBONATE	1.0									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/24/91				S		86			%		CARBONATE	1.0									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/24/91				D		96			MG/L		CHLORIDE	0.2									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/24/91				S		96			%		CHLORIDE	0.2									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/24/91				TRG		97			MG/L		CHLORIDE	0.2	V								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/18/91				D		4			MG/L		DISSOLVED ORGANIC CA	1.0									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/18/91				TRG		4			MG/L		DISSOLVED ORGANIC CA	1.0	V								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/18/91				S		105			%		DISSOLVED ORGANIC CA	1.0									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/22/91				TRG		0.5			MG/L		FLUORIDE	0.1	V								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/22/91				S		87			%		FLUORIDE	0.1									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/22/91				D		0.5			MG/L		FLUORIDE	0.1									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/23/91				TRG		350			MG/L		NITRATE/NITRITE	0.02	V								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/23/91				D		350			MG/L		NITRATE/NITRITE	0.02									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/23/91				S		-370			%		NITRATE/NITRITE	0.02									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MSD			04/23/91				SD		-42			%		NITRATE/NITRITE	0.02									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/18/91				S		106			%		NITRITE	0.02									
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/18/91				TRG		0.02	U		MG/L		NITRITE	0.02	JA	2							

PROJECT SAMPLE NUMBER	SAMPLE COLLECTION DATE MM/DD/	SAMPLE COLLECTION TIME HH:	BATCH NUMBER	SAMPL MATRIX	LAB SAMPLE NUMBER	LAB ID	SAMPL PREP DATE MM/DD/	SAMPLE ANALYSIS DATE MM/DD/	SAMPLE ANALYSIS TIME HH:	BLANK SAMPLE NUMBER	LAB TEST PANEL CODE	RS ID	CAS NUMBER	ANALYTIC RESULT	RSLT QUA IFIER	2 SIG ERROR	UNIT OF MEASU	RETEN TION TIME	PARAMETER NAME	INSTRUMENT DETECTION LIMIT	V	REASONS 1	2	3	4	QLI RESULT	QLI UNIT OF MEASU	QLI QUA FIER
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/18/91				D		0.02	U		MG/L		NITRITE	0.02								
SW01064WC	04/11/91		P128 04/18/91	WATER	Q10409002 MS			04/24/91				S		95			%		OIL & GREASE	0.2								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/24/91				TRG		0.9			MG/L		OIL & GREASE	0.2	V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/17/91				S		87			%		ORTHOPHOSPHATE	0.01								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/17/91				TRG		0.02			MG/L		ORTHOPHOSPHATE	0.01	JA	2						
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/17/91				D		0.01			MG/L		ORTHOPHOSPHATE	0.01								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/22/91				TRG		7.6			MG/L		SILICA	0.4	V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/22/91				S		86			%		SILICA	0.4								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/22/91				D		7.6			MG/L		SILICA	0.4								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/25/91				S		108			%		SULFATE	2.0								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/25/91				TRG		100			MG/L		SULFATE	2.0	V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/25/91				D		100			MG/L		SULFATE	2.0								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/18/91				D		2	U		MG/L		SULFIDE	2.0								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/18/91				S		80			%		SULFIDE	2.0								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/18/91				TRG		1			MG/L		SULFIDE	2.0	V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/18/91				TRG		2900			MG/L		TOTAL DISSOLVED SOLID	10.0	V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/18/91				D		2900			MG/L		TOTAL DISSOLVED SOLID	10.0								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/24/91				TRG		3			MG/L		TOTAL ORGANIC CARBON	1.0	V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/24/91				D		3			MG/L		TOTAL ORGANIC CARBON	1.0								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/24/91				S		105			%		TOTAL ORGANIC CARBON	1.0								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409004 MS			04/26/91				S		84			%		TOTAL PHOSPHATE	0.01								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/26/91				TRG		0.04			MG/L		TOTAL PHOSPHATE	0.01	V							
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/26/91				D		0.04			MG/L		TOTAL PHOSPHATE	0.01								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409003 DUP			04/18/91				D		16			MG/L		TOTAL SUSPENDED SOLID	4.0								
SW01064WC	04/11/91		P128 04/17/91	WATER	Q10409002			04/18/91				TRG		21			MG/L		TOTAL SUSPENDED SOLID	4.0	JA	11						
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/24/91				TRG		150			MG/L		BICARBONATE	1.0	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/24/91				TRG		0			MG/L		CARBONATE	1.0	V				99	1.0		U
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/24/91				TRG		72			MG/L		CHLORIDE	0.2	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001 DUP			04/18/91				D		9			MG/L		DISSOLVED ORGANIC CA	1.0								
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/18/91				TRG		9			MG/L		DISSOLVED ORGANIC CA	1.0	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/22/91				TRG		0.8			MG/L		FLUORIDE	0.1	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/23/91				TRG		190			MG/L		NITRATE/NITRITE	0.02	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/18/91				TRG		0.06			MG/L		NITRITE	0.02	JA	2						
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/24/91				TRG		1.1			MG/L		OIL & GREASE	0.2	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/17/91				TRG		0.11			MG/L		ORTHOPHOSPHATE	0.01	JA	2						
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/22/91				TRG		4.5			MG/L		SILICA	0.4	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/25/91				TRG		120			MG/L		SULFATE	2.0	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/18/91				TRG		1	U		MG/L		SULFIDE	2.0	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/18/91				TRG		1500			MG/L		TOTAL DISSOLVED SOLID	10.0	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/24/91				TRG		9			MG/L		TOTAL ORGANIC CARBON	1.0	V							

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SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001 DUP			04/24/91				D		9			MG/L		TOTAL ORGANIC CARBON	1.0								
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/26/91				TRG		0.16			MG/L		TOTAL PHOSPHATE	0.01	V							
SW01065WC	04/11/91		P128 04/17/91	WATER	Q10409001			04/18/91				TRG		48			MG/L		TOTAL SUSPENDED SOLID	4.0	JA	11						
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/24/91				TRG		48			MG/L		BICARBONATE	1.0	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/24/91				TRG		0			MG/L		CARBONATE	1.0	V				99	1.0		U
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/24/91				TRG		87			MG/L		CHLORIDE	0.2	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007 DUP			04/24/91				D		17			MG/L		DISSOLVED ORGANIC CA	1.0								
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/24/91				TRG		17			MG/L		DISSOLVED ORGANIC CA	1.0	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/22/91				TRG		0.2			MG/L		FLUORIDE	0.1	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/23/91				TRG		0.9			MG/L		NITRATE/NITRITE	0.02	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/18/91				TRG		0.02			MG/L		NITRITE	0.02	JA	2						
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/24/91				TRG		5.1			MG/L		OIL & GREASE	0.2	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/18/91				TRG		0.01	U		MG/L		ORTHOPHOSPHATE	0.01	JA	2						
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/22/91				TRG		1.2			MG/L		SILICA	0.4	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/25/91				TRG		57			MG/L		SULFATE	2.0	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/18/91				TRG		1	U		MG/L		SULFIDE	2.0	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/18/91				TRG		240			MG/L		TOTAL DISSOLVED SOLID	10.0	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/24/91				TRG		10			MG/L		TOTAL ORGANIC CARBON	1.0	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007 DUP			04/24/91				D		10			MG/L		TOTAL ORGANIC CARBON	1.0	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/26/91				TRG		0.30			MG/L		TOTAL PHOSPHATE	0.01	V							
SW01068WC	04/11/91		P128 04/18/91	WATER	Q10409007			04/18/91				TRG		300			MG/L		TOTAL SUSPENDED SOLID	4.0	JA	11						
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/24/91				TRG		6			MG/L		BICARBONATE	1.0	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/24/91				TRG		0			MG/L		CARBONATE	1.0	V				99	1.0		U
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/24/91				TRG		0.2	U		MG/L		CHLORIDE	0.2	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/24/91				TRG		1	U		MG/L		DISSOLVED ORGANIC CA	1.0	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005 DUP			04/24/91				D		1	U		MG/L		DISSOLVED ORGANIC CA	1.0								
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/22/91				TRG		0.1	U		MG/L		FLUORIDE	0.1	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/23/91				TRG		0.02			MG/L		NITRATE/NITRITE	0.02	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/18/91				TRG		0.02	U		MG/L		NITRITE	0.02	JA	2						
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/24/91				TRG		1.6			MG/L		OIL & GREASE	0.2	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/17/91				TRG		0.01	U		MG/L		ORTHOPHOSPHATE	0.01	JA	2						
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/22/91				TRG		0.4	U		MG/L		SILICA	0.4	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/25/91				TRG		2	U		MG/L		SULFATE	2.0	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/18/91				TRG		1	U		MG/L		SULFIDE	2.0	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/18/91				TRG		11			MG/L		TOTAL DISSOLVED SOLID	10.0	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005 DUP			04/24/91				D		1	U		MG/L		TOTAL ORGANIC CARBON	1.0								
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/24/91				TRG		1	U		MG/L		TOTAL ORGANIC CARBON	1.0	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/26/91				TRG		0.01	U		MG/L		TOTAL PHOSPHATE	0.01	V							
SW80110WC	04/11/91		P128 04/17/91	WATER	Q10409005			04/18/91				TRG		4	U		MG/L		TOTAL SUSPENDED SOLID	4.0	JA	11						
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/24/91				TRG		300			MG/L		BICARBONATE	1.0	V							

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SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/24/91				TRG		0			MG/L		CARBONATE	1.0	V				99	1.0		U
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/24/91				TRG		93			MG/L		CHLORIDE	0.2	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006 DUP			04/24/91				D		3			MG/L		DISSOLVED ORGANIC CA	1.0								
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/24/91				TRG		4			MG/L		DISSOLVED ORGANIC CA	1.0	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/22/91				TRG		0.5			MG/L		FLUORIDE	0.1	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/23/91				TRG		330			MG/L		NITRATE/NITRITE	0.02	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/18/91				TRG		0.02	U		MG/L		NITRITE	0.02	JA	2						
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/24/91				TRG		1.6			MG/L		OIL & GREASE	0.2	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/18/91				TRG		0.02			MG/L		ORTHOPHOSPHATE	0.01	JA	2						
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/22/91				TRG		7.7			MG/L		SILICA	0.4	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/25/91				TRG		110			MG/L		SULFATE	2.0	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/18/91				TRG		1	U		MG/L		SULPIDE	2.0	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/18/91				TRG		2900			MG/L		TOTAL DISSOLVED SOLID	10.0	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/24/91				TRG		3			MG/L		TOTAL ORGANIC CARBO	1.0	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006 DUP			04/24/91				D		3			MG/L		TOTAL ORGANIC CARBO	1.0								
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/26/91				TRG		0.04			MG/L		TOTAL PHOSPHATE	0.01	V							
SW80111WC	04/11/91		P128 04/18/91	WATER	Q10409006			04/18/91				TRG		16			MG/L		TOTAL SUSPENDED SOLI	4.0	JA	11						
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